



GAV 1743

PATENT  
ATTORNEY DOCKET NO. 09604/012001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : James W. Overbeck et al. Art Unit: #4  
Serial No.: 09/079,324 Examiner:  
Filed : May 14, 1998  
Title : DEPOSITING FLUID SPECIMENS ON SUBSTRATES, RESULTING  
ORDERED ARRAYS, TECHNIQUES FOR ANALYSIS OF DEPOSITED  
ARRAYS

Assistant Commissioner for Patents  
Washington, DC 20231

INFORMATION DISCLOSURE STATEMENT

Applicants submit the references listed on the attached form PTO 1449, copies of which are enclosed. A copy of a communication from a foreign patent office in a counterpart application is also enclosed.

This statement is being filed before the receipt of a first Office action on the merits.

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date:

August 26, 1999

John N. Williams  
John N. Williams  
Reg. No. 18,948

TC 1703 MAIL ROOM

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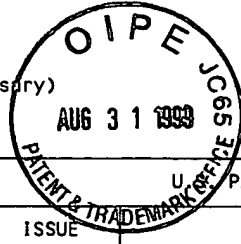
I hereby certify under 37 C.F.R. 1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Tom M. Searcy

SUBSTITUTE FORM PTO-1449  
(MODIFIED)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
09604/012001SERIAL NO.  
09/079,324INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
(Use several sheets if necessary)APPLICANT  
James W. Overbeck et al.FILING DATE  
May 14, 1998

GROUP

(37 CFR 1.98(b))



U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	2	8	6	8	0	2	0	01/13/59	Williams Jr.	73	432	02/24/55
	AB	3	3	2	9	9	6	4	07/04/67	Mutschler et al.	346	78	06/24/65
	AC	3	3	3	4	3	5	4	08/01/67	Mutschler	346	140	03/17/66
	AD	3	5	6	8	7	3	5	03/09/71	Lancaster	141	238	06/26/68
	AE	4	0	4	1	9	9	5	08/16/77	Columbus	141	275	12/24/75
	AF	4	0	9	6	8	2	5	06/27/78	Golias et al.	118	221	02/18/77
	AG	4	1	4	2	6	5	6	03/06/79	Smith et al.	222	325	12/17/76
	AH	4	3	2	2	0	6	3	03/30/82	Fishbeck et al.	267	160	04/14/80
	AI	4	3	4	0	3	9	0	07/20/82	Collins et al.	23	230	05/06/81
	AJ	4	3	8	7	3	8	4	06/07/83	Sue	346	140	11/12/80
	AK	4	4	3	4	6	7	2	03/06/84	Williamson et al.	73	864.22	11/09/81
	AL	4	4	4	1	5	3	2	04/10/84	Hrubesh	141	1	05/03/82
	AM	4	4	5	2	8	9	9	06/05/84	Alston	436	46	06/10/82
	AN	4	5	6	7	5	8	5	01/28/86	Gelbart	369	97	10/31/83
	AO	4	6	3	5	4	8	8	01/13/87	Kremer	73	864.22	12/03/84
	AP	4	6	5	6	0	0	7	04/07/87	Douchy et al.	422	64	09/24/85
	AQ	4	6	5	9	6	7	7	04/21/87	Glover et al.	436	174	03/22/85
	AR	4	7	3	7	3	4	4	04/12/88	Koizumi et al.	422	100	04/22/87
	AS	4	9	8	1	7	8	3	01/01/91	Augenlicht	435	6	04/16/86
	AT	5	2	0	2	2	3	1	04/12/88	Drmanac	422	100	04/22/87
	AU	5	2	0	4	2	6	8	04/20/93	Matsumoto	436	44	01/28/92
	AV	5	2	1	3	7	6	4	05/25/93	Kerr et al.	422	100	05/15/91
	AW	5	2	2	3	2	2	5	06/29/93	Gautsch	422	100	05/17/91

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AX	EP 0 373 203		European Patent Office				

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	AY							
EXAMINER					DATE CONSIDERED			

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

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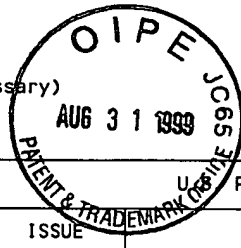
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APPLICANT  
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## PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA	5 2 6 2 1 2 8	11/16/93	Leighton et al.	422	100	10/23/89
	BB	5 3 0 6 5 1 0	04/26/94	Meltzer	422	65	02/01/91
	BC	5 3 3 8 6 8 8	08/16/94	Deeg et al.	436	180	02/19/93
	BD	5 3 4 4 6 6 6	09/06/94	Levine	427	2.11	03/19/92
	BE	5 4 2 8 6 9 0	06/27/95	Bacus et al.	382	128	02/18/92
	BF	5 4 3 6 1 2 9	07/25/95	Stapleton	435	6	10/12/93
	BG	5 4 4 3 7 9 1	08/22/95	Cathcart et al.	422	65	08/07/92
	BH	5 4 9 2 8 0 6	02/20/96	Drmanac et al.	435	5	04/12/93
	BI	5 5 2 5 4 6 4	06/11/96	Drmanac et al.	435	6	02/28/94
	BJ	5 5 5 1 4 8 7	09/03/96	Gordon et al.	141	1	03/10/95
	BK	5 6 0 7 8 6 1	03/04/97	Komatsu et al.	436	50	06/17/96
	BL	5 6 2 6 7 4 0	05/06/97	Seto et al.	205	789	01/16/96
	BM	5 6 6 5 3 1 2	09/09/97	Sperber et al.	422	81	11/14/95
	BN	5 7 5 6 0 5 0	05/26/98	Ershow et al.	422	100	
	BO	5 7 7 0 1 5 1	06/23/98	Roach et al.	422	63	06/05/96
	BP	5 8 0 7 5 2 2	09/15/98	Brown et al.	422	50	06/07/95
	BQ	5 8 8 2 9 3 0	03/16/99	Baier	436	49	11/10/97
	BR	5 8 9 5 6 3 0	04/20/99	Skaborn et al.	422	100	

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	BS	WO 95/04594	16.02.95	PCT				

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	BT	Castellino, Alexander M.; "When the Chips are Down"; <u>Genome Research</u> ; Vol. 7, No. 10; (1997), pp 943-946
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EXAMINER	DATE CONSIDERED
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Substitute Disclosure Form (PTO-1449)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 CFR 1.98(b))				APPLICANT James W. Overbeck et al.			
				FILING DATE May 14, 1998		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER		ISSUE DATE	PATENTEE	CLASS	FILING DATE IF APPROPRIATE
	CA	5	7 0 0 6 3 7		Southern et al.		
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
	CB	WO 95/09248	06.04.95	PCT			
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
	CC	Ekins, R.P., et al.; "Multianalyte Immunoassay: The Immunological "Compact Disk" of the Future"; <u>Journal of Clinical Immunoassay</u> ; Vol. 13, No. 4; (1990), pp 169-181					
	CD	NORMAG, Northern Magnetics Inc., company brochure					
	CE	NORMAG, "Single Axis High Performance Linear Stepper Motors", product description, pp 1					
	CF	"The Perfect Solution for Your Testing Problem", © Ostby Barton, (1997); product description, pp 1					
	CG	BioRobotics, "The MicroGrid", product description, pp 2					
	CH	"Gridding & Replicating Application", Revised: November 1997 © <u>PBA Technology Ltd.</u> , pp 1-2					
	CI	Geysen, H. M., et al.; "Strategies for epitope analysis using peptide synthesis"; <u>Journal of Immunological Methods</u> ; Vol. 102; (1987), pp 259-274					
	CJ	Graves, David J., et al.; "System for Preparing Microhybridization Arrays on Glass Slides"; <u>Analytical Chemistry</u> ; Vol. 70, (1998) pp 5085-5092					
	CK	Kalachikov, S., et al.; "Colony Selection with an Automated 383-Pin High-Density Replicating Tool (HDRT); BioRobotics, ©1996 Beckman Instruments, Inc.; pp 1-7					
	CL	Lemieux, B., et al.; "Overview of DNA chip technology"; Molecular Breeding; Vol. 4, (1998); pp 277-289					
EXAMINER				DATE CONSIDERED			
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PATENT DOCUMENTS													
EXAMINER INITIAL		PATENT NUMBER				ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE			
	DA	5	5	4	0	8	9	1	07/30/96	Portmann et al.	422	102	10/11/94
	DB	5	8	0	0	9	9	2	09/01/98	Fodor et al.	435	6	06/25/96
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION													
		DOCUMENT NUMBER				PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION			
	DC									YES NO			
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)													
	DD	Pease et al.; "Light-generated oligonucleotide arrays for rapid DNA sequence analysis"; <u>Proc. Natl. Acad. Sci. USA</u> ; Vol. 91, pp. 5022-5026, May 1994.											
	DE	Southern et al.; "Molecular interactions on microarrays"; The Chipping Forecast; <u>Nature Genetics</u> ; Vol. 21, pp. 5-9; January 1999.											
	DF	Trent et al., "Workshop on Methods and Applications of DNA Microarray Technology"; January 11-13, 1998.											
	DG	"Microfiltration Apparatus"; <u>Chromatography Electrophoresis Immunochemistry Molecular Biology HPLC</u> ; catalogue M 1987.											
	DH	Hames et al.; "Nucleic Acid Hybridization: A Practical Approach"; <u>IRL Press</u> Oxford England; 1985.											
	DI	"BioRobotics Latest Developments"; BioRobotics, Beckman Instruments, Inc.; 1997.											
	DJ	Abstracts of papers presented at the 1994 meeting on Genome Mapping & Sequencing; pp. 48, 60-62, 198, 203, 296-297; May 11-15, 1994.											
	DK	Gilson; "Raising The Speed Limit On Liquid Handling...Again!" advertisement p 1											
	DL												
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